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(71) Applicant (for all designated States except US): THE CURATORS OF THE UNIVERSITY OF MISSOURI [US/US]; 615 Locust Street Building, 3rd floor, Columbia, MO 65211 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): QUINN, Thomas, P. [US/US]; 5700 Sinclair Road, Columbia, MO 65203 (US). KARASSEVA, Natalia G. [RU/US]; 407 Parkade, Columbia, MO 65202 (US).

(74) Agent: HIGHLANDER, Steven, L.; Fulbright & Jaworski L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX 78701 (US).

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(54) Title: ErbB-2 RECEPTOR TARGETING PEPTIDE

(57) Abstract: The ErbB-2 receptor, a member of the tyrosine kinase type 1 family of receptors, has been implicated in many human malignancies. Bacteriophage display technology was employed to identify peptides that bound to the extracellular domain of human ErbB-2. The peptide KCCYSL, most frequently occurring in the affinity selected population, was chemically synthesized and characterized for its binding activities to the recombinant extracellular domain of ErbB-2. The synthetic peptide exhibits high specificity to ErbB-2 as well as to ErbB-1, another member of ErbB family. Thus, this peptide can be employed in cancer imaging or therapeutic agent targeting to malignant cells ErbB-2 receptor.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D487/04 A61K31/4985

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/060492 A (CYTOPIA PTY LTD ; BURNS CHRISTOPHER JOHN (AU); WILKS ANDREW FREDERICK) 8 August 2002 (2002-08-08) the whole document claims 7-17,25-34	1-62
P,A	WO 03/089434 A (CELLULAR GENOMICS INC) 30 October 2003 (2003-10-30) the whole document	1-62
P,X	WO 2004/022562 A (CELLULAR GENOMICS INC) 18 March 2004 (2004-03-18) the whole document	1-62
P,X	WO 2004/026877 A (SCHERING CORP) 1 April 2004 (2004-04-01) the whole document	1-62

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Date of the actual completion of the international search	Date of mailing of the International search report
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Name and mailing address of the ISA
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Authorized officer

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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